

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/234,290B

Input Set : A:\10274-008003.txt

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6 <120> TITLE OF INVENTION: TREATMENT FOR INSULIN DEPENDENT DIABETES
  4 <110> APPLICANT: Burkly, Linda C.
  9 <130> FILE REFERENCE: 10274-008003
 11 <140> CURRENT APPLICATION NUMBER: US 09/234,290B
 12 <141> CURRENT FILING DATE: 1999-01-20
  14 <150> PRIOR APPLICATION NUMBER: US 08/447,118
  15 <151> PRIOR FILING DATE: 1993-05-22
  17 <150> PRIOR APPLICATION NUMBER: US 08/029,330
  18 <151> PRIOR FILING DATE: 1993-02-09
  20 <150> PRIOR APPLICATION NUMBER: PCT/US94/01456
  21 <151> PRIOR FILING DATE: 1994-02-09
   24 <160> NUMBER OF SEQ ID NOS: 19
   26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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   29 <211> LENGTH: 360
   30 <212> TYPE: DNA
   31 <213> ORGANISM: Homo sapiens
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    34 <221> NAME/KEY: misc_feature
    36 <223> OTHER INFORMATION: pBAG159 insert: HP1/2 heavy
    35 <222> LOCATION: (0)...(0)
             chain variableregion; amino acid 1
             is Glu (E) but Gln (Q) may be substituted
    37
    41 <221> NAME/KEY: CDS
   .42 <222> LOCATION: (1)...(360)
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     46 Val Lys Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala Ser
W--> 44 <400> 1
                                                                              96
     49 gtc aag ttg tcc tgc aca gct tct ggc ttc aac att aaa gac acc tat
     50 Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr
                                                                              144
      53 atg cac tgg gtg aag cag agg cct gaa cag ggc ctg gag tgg att gga
      54 Met His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile Gly
                                                                              192
      57 agg att gat cct gcg agt ggc gat act aaa tat gac ccg aag ttc cag
      58 Arg Ile Asp Pro Ala Ser Gly Asp Thr Lys Tyr Asp Pro Lys Phe Gln
       61 gtc aag gcc act att aca gcg gac acg tcc tcc aac aca gcc tgg ctg
                                                                               240
       62 Val Lys Ala Thr Ile Thr Ala Asp Thr Ser Ser Asn Thr Ala Trp Leu
                                                                               288
       65 cag ctc agc ctg aca tct gag gac act gcc gtc tac tac tgt gca
       66 Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala
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RAW SEQUENCE LISTING DATE: 06/17/2003 PATENT APPLICATION: US/09/234,290B TIME: 15:08:21

Input Set : A:\10274-008003.txt

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67
     69 gac gga atg tgg gta tca acg gga tat gct ctg gac ttc tgg ggc caa
                                                                               336
     70 Asp Gly Met Trp Val Ser Thr Gly Tyr Ala Leu Asp Phe Trp Gly Gln
                    100
     73 ggg acc acg gtc acc gtc tcc tca
                                                                               360
     74 Gly Thr Thr Val Thr Val Ser Ser
                115
     78 <210> SEO ID NO: 2
     79 <211> LENGTH: 120
     80 <212> TYPE: PRT
     81 <213> ORGANISM: Homo sapiens
     83 <400> SEQUENCE: 2
     84 Val Lys Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala Ser
                     . 5
     86 Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr
                    20
                                         25
     88 Met His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile Gly
     90 Arg Ile Asp Pro Ala Ser Gly Asp Thr Lys Tyr Asp Pro Lys Phe Gln
     92 Val Lys Ala Thr Ile Thr Ala Asp Thr Ser Ser Asn Thr Ala Trp Leu
                                                 75
     94 Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala
                        85
                                            90
     96 Asp Gly Met Trp Val Ser Thr Gly Tyr Ala Leu Asp Phe Trp Gly Gln
                    100
     98 Gly Thr Thr Val Thr Val Ser Ser
                115
                                    120
     101 <210> SEQ ID NO: 3
     102 <211> LENGTH: 318
     103 <212> TYPE: DNA
     104 <213> ORGANISM: Homo sapiens
     106 <220> FEATURE:
     107 <221> NAME/KEY: misc feature
     108 <222> LOCATION: (0)...(0)
     109 <223> OTHER INFORMATION: pBAG172 insert: HP1/2
               light chain variable region
     113 <221> NAME/KEY: CDS
     114 <222> LOCATION: (1)...(318)
     115 <223> OTHER INFORMATION: HP1/2 light chain variable region
W--> 118 <400> 3
     119 agt att gtg atg acc cag act ccc aaa ttc ctg ctt gtt tca gca gga
                                                                                48
     120 Ser Ile Val Met Thr Gln Thr Pro Lys Phe Leu Leu Val Ser Ala Gly
     123 gac agg gtt acc ata acc tgc aag gcc agt cag agt gtg act aat gat
                                                                                96
     124 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Thr Asn Asp
    125
                      20
    127 gta gct tgg tac caa cag aag cca ggg cag tct cct aaa ctg ctg ata
                                                                               144
     128 Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
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RAW SEQUENCE LISTING DATE: 06/17/2003
PATENT APPLICATION: US/09/234,290B TIME: 15:08:21

Input Set : A:\10274-008003.txt

Output Set: N:\CRF4\06172003\I234290B.raw

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129
     131 tat tat gca tcc aat cgc tac act gga gtc cct gat cgc ttc act ggc
                                                                                192
     132 Tyr Tyr Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly
              50
                                  55
     135 agt gga tat ggg acg gat ttc act ttc acc atc agc act gtg cag gct
                                                                                240
     136 Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Thr Val Gln Ala
     139 gaa gac ctg gca gtt tat ttc tgt cag cag gat tat agc tct ccg tac
                                                                                288
     140 Glu Asp Leu Ala Val Tyr Phe Cys Gln Gln Asp Tyr Ser Ser Pro Tyr
     141
                          85
                                               90
     143 acg ttc gga ggg ggg acc aag ctg gag atc
                                                                                318
     144 Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
     145
                     100
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     150 <212> TYPE: PRT
     151 <213> ORGANISM: Homo sapiens
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     155 1
                          5
     156 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Thr Asn Asp
     158 Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
                 35
                                      40
     160 Tyr Tyr Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly
                                  55
     162 Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Thr Val Gln Ala
                                                  75
                             70
     164 Glu Asp Leu Ala Val Tyr Phe Cys Gln Gln Asp Tyr Ser Ser Pro Tyr
                         85
     166 Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
     167
                     100
     169 <210> SEQ ID NO: 5
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     171 <212> TYPE: DNA
     172 <213> ORGANISM: Homo sapiens
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     178 <221> NAME/KEY: sig_peptide
     179 <222> LOCATION: (1)...(57)
W--> 181 <221> mat_peptide
     182 <222> LOCATION: (58)...(429)
W--> 184 <221> misc feature
     185 <222> LOCATION: (0)...(0)
     186 <223> OTHER INFORMATION: pBAG195 insert: AS heavy chain variable region
W--> 189 <400> 5
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190 atg gac tgg acc tgg agg gtc ttc tgc ttg ctg gct gta gca cca ggt 191 Met Asp Trp Thr Trp Arq Val Phe Cys Leu Leu Ala Val Ala Pro Gly

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102					1 5					1.0					_		
192					-15					-10					- 5		0.6
			tcc														96
	Ата	HIS	Ser	_	vaı	GIN	ьeu	GIN	GIU	Ser	GTÀ	Pro	_	ьеи	vaı	Arg	
196				1				5					10			- 4- 4-	144
			cag														144
	Pro		Gln	Thr	Leu	Ser		Thr	Cys	Thr	Ата		GTA	Pne	Asn	TTE	
200		15					. 20					25					
			acc														192
	-	Asp	Thr	Tyr	Met		Trp	Val	Arg	GIn		Pro	GLy	Arg	Gly		
204	30					35					40					45	
			att														240
	Glu	Trp	Ile	Gly	-	Ile	Asp	Pro	Ala	Ser	Gly	Asp	Thr	Lys	_	Asp	
208					50					55					60		
			ttc														288
	Pro	Lys	Phe	Gln	Val	Arg	Val	Thr	Met	Leu	Val	Asp	Thr		Ser	Asn	
212				65					70					75			
214	cag	ttc	agc	ctg	aga	ctc	agc	agc	gtg	aca	gcc	gcc	gac	acc	gcg	gtc	336
215	Gln	Phe	Ser	Leu	Arg	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	
216			80					85					90				
218	tat	tat	tgt	gca	gac	gga	atg	tgg	gta	tca	acg	gga	tat	gct	ctg	gac	384
219	Tyr	Tyr	Cys	Ala	Asp	Gly	Met	Trp	Val	Ser	Thr	Gly	Tyr	Ala	Leu	Asp	
220		95					100					105					
222	ttc	tgg	ggc	caa	ggg	acc	acg	gtc	acc	gtc	tcc	tca	ggt	gag	tcc		429
223	Phe	Trp	Gly	Gln	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser	Gly	Glu	Ser		
224	110					115					120						
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227 228 229 230 232 233 234 236 237 238 239 240 241 242	<210 <211 <211 <221 <222 <400 Met Ala Pro	1> LH 2> TY 3> OH 0> FH 1> NA 2> LG 0> SH Asp His Ser 15	ENGTH YPE: RGANI RGANI EATUH AME/H DCATI EQUEN Trp Ser Gln	H: 14 PRT ISM: RE: REY: ION: Thr Intr	Homo SIGN (1). 6 Trp -15 Val	NAL (1 Arg Gln Ser	Val Leu Leu 20	Phe Gln 5 Thr	Glu Cys	-10 Ser Thr	Leu Gly Ala	Pro Ser 25	Gly 10 Gly	Leu Phe	-5 Val Asn	Arg Ile	
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227 228 229 230 232 233 234 236 237 238 239 240 241 242 243 244 245 246 247 248 249	<210 <211 <211 <221 <222 <222 <400 Met Ala Pro Lys 30 Glu	1 > LI 2 > TY 3 > OI 0 > FI 1 > NA 2 > LC 0 > SI Asp His Ser 15 Asp Trp	ENGTH YPE: RGANI RGANI EATUR AME/R DCATI EQUEN Trp Ser Gln Thr	H: 14 PRT ISM: RE: RE: RE: ION: Thr I Thr Gln Tyr Gly Gln 65	Homo SIGN (1).6 Trp -15 Val Leu Met Arg 50 Val	NAL Arg Gln Ser His 35 Ile Arg	Val Leu Leu 20 Trp Asp	Phe Gln 5 Thr Val Pro Thr	Glu Cys Arg Ala Met 70	-10 Ser Thr Gln Ser 55 Leu	Leu Gly Ala Pro 40 Gly Val	Pro Ser 25 Pro Asp	Gly 10 Gly Gly Thr	Leu Phe Arg Lys Ser 75	-5 Val Asn Gly Tyr 60 Ser	Arg Ile Leu 45 Asp	
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227 228 229 230 232 233 234 236 237 238 249 241 242 243 244 245 246 247 248 249 250	<210 <211 <211 <212 <221 <222 <400 Met Ala Pro Lys 30 Glu Pro Gln	1> LI 2> TY 3> OI 0> FI 1> NA 2> LC 0> SI Asp His Ser 15 Asp Trp Lys	ENGTH YPE: RGANI RGANI REATUR AME/R OCATI EQUEN Trp Ser Gln Thr Ile Phe Ser	H: 14 PRT ISM: RE: KEY: ON: Thr Gln Thr Gly Gln 65 Leu	Homo SIGN (1).6 Trp -15 Val Leu Met Arg 50 Val Arg	NAL Arg Gln Ser His 35 Ile Arg	Val Leu Leu 20 Trp Asp Val Ser	Phe Gln 5 Thr Val Pro Thr Ser 85	Glu Cys Arg Ala Met 70 Val	-10 Ser Thr Gln Ser 55 Leu Thr	Leu Gly Ala Pro 40 Gly Val Ala	Pro Ser 25 Pro Asp Asp Ala	Gly 10 Gly Gly Thr Thr	Leu Phe Arg Lys Ser 75 Thr	-5 Val Asn Gly Tyr 60 Ser Ala	Arg Ile Leu 45 Asp Asn Val	

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/09/234,290B**DATE: 06/17/2003 TIME: 15:08:22

Input Set : A:\10274-008003.txt

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     254 110
                             115
     256 <210> SEQ ID NO: 7
     257 <211> LENGTH: 384
     258 <212> TYPE: DNA
     259 <213> ORGANISM: Homo sapiens
     261 <220> FEATURE:
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     263 <222> LOCATION: (1)...(384)
     265 <221> NAME/KEY: sig peptide
     266 <222> LOCATION: (1)...(57)
W--> 268 <221> mat peptide
     269 <222> LOCATION: (58)...(384)
W--> 271 <221> misc feature
     272 <222> LOCATION: (0)...(0)
     273 <223> OTHER INFORMATION: pBAG198 insert: VK (SVMDY) light chain variable
     274
               region
W--> 277 <400> 7
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                                                                                 48
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     280
                         -15
                                              -10
                                                                                 96
     282 gtc cac tcc agc atc gtg atg acc cag agc cca agc agc ctg agc gcc
     283 Val His Ser Ser Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ser Ala
     286 age qtq qqt qac aqa qtq acc atc acc tqt aaq qcc aqt caq aqt qtq
                                                                                144
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                                                                                192
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     291 Thr Asn Asp Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
     292
                              35
     294 ctg ctg atc tac tat gca tcc aat cgc tac act ggt gtg dca gat aga
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                                               55
     298 ttc agc ggt agc ggt tat ggt acc gac ttc acc ttc acc atc agc agc
                                                                                288
     299 Phe Ser Gly Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser
     300
                                           70
                      65
     302 ctc cag cca gag gac atc gcc acc tac tac tgc cag cag gat tat agc
                                                                                336
     303 Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Asp Tyr Ser
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DATE: 06/17/2003

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/234,290B TIME: 15:08:23

Input Set : A:\10274-008003.txt

Output Set: N:\CRF4\06172003\I234290B.raw

L:44 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1 L:118 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3 L:181 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5 L:184 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5 L:189 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5 L:268 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7 L:271 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7 L:277 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7 L:355 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9 L:363 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9 L:369 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:372 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9 L:378 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9 L:378 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9 L:378 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9 L:378 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9